

ABSTRACT

Supported catalysts which allow shortening of the
production steps for supported catalysts useful for
5 production of lower aliphatic carboxylic acids from lower
olefins and oxygen, and which compared to supported
catalysts of the prior art, can inhibit generation of
carbon dioxide (CO₂) gas by-product during the production
of lower aliphatic carboxylic acids. A compound
10 containing at least one element selected from Group 8, 9
and 10 elements of the Periodic Table is loaded on a
carrier and then, before reduction treatment of the
compound, it is subjected to alkali treatment with an
alkaline substance, and a compound containing at least
15 one element selected from gallium, indium, thallium,
germanium, tin, lead, phosphorus, arsenic, antimony,
bismuth, sulfur, selenium, tellurium and polonium is
loaded.